

# GULF OIL CANADA LIMITED

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EXPLORATION AND PRODUCTION DEPARTMENT

February 4, 1976

Ballem, McDill & MacInnes  
Barristers and Solicitors  
1600 Elveden House  
717 Seventh Avenue S. W.  
Calgary, Alberta  
T2P 0Z3

Attention: Mr. John B. Ballem

Gentlemen:

Re: Environmental Programme - Hans Bay Area - 1976

In 1976 it is proposed that Gulf Oil Canada Limited will conduct environmental studies in the Hans Bay area of the Northwest Territories. These studies will serve a two-fold purpose in that they will provide a base-line environmental inventory for the use of design people during Phase 1 of the project and they will meet anticipated government requirements for site specific environmental data. The area in which the study will be conducted will be that area around Hans Bay, the corridor from the L-43 wellsite to the proposed plantsite, and the Eskimo Lakes.

The studies which should be conducted in the area are as follows:

## 1. Aquatic Programme

Gulf Oil Canada Ltd. proposes to conduct fish population assessment in Hans Bay. This will involve a netting programme with an analysis as to types of fish, size of fish and quantity of fish. The purpose of the aquatic programme will be to provide an inventory of fish population in Hans Bay. By examining toxicity levels in the fish, we will be establishing a control so that a regular monitoring programme may be carried out during construction and operation of the gas plant to evaluate effects of the plant on the fish population in Hans Bay.

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EXHIBIT NO. 461 A - Feb 12/76  
Involvement  
Commission  
Counsel





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Similar fish population assessments would be carried out in the major ponds in the area, although location of specific study sites cannot be made at this time. Weirs would be set out in the stream which flows into the southern end of Hans Bay so that an evaluation of the use of the stream by spawning fish, notably grayling, may be made.

In addition to a fish population assessment in the area, other studies would be conducted to determine the types of aquatic vegetation in the area. This programme would involve the analysis of vegetation which is dependent upon the water for life and would include surrounding vegetation in the immediate area, as well as organisms on the surface of the water and those on the lake or stream bed.

## 2. Avian Programme

In order to conduct an inventory of birdlife in the area it will be necessary to evaluate the number of birds living in the study area and to determine the patterns of migration, nesting and moulting of the birdlife of the area. The study is necessary to provide an inventory of birdlife in the area.

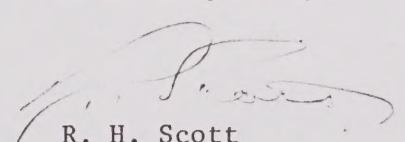
## 3. Air Quality Programme

In order to ascertain the existing base toxicity levels of aerial pollutants in the area, a study will be made to evaluate samples of air collected in the area of the plantsite. The programme would consist of erecting a monitoring station near the plantsite and setting out plates at various field locations.

## 4. Whale Programme

Gulf Oil Canada Ltd. proposes to conduct a study in the Eskimo Lakes and Liverpool Bay to ascertain to what extent these areas are used by the Beluga whale.

Yours very truly,



R. H. Scott  
Manager - Delta Project

WEA/hlm



